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IS 8327 (1977): Forceps, Nodule, Vocal, Chevalier Jackson's Pattern [MHD 4: Ear, Nose and Throat Surgery Instruments]

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**“Knowledge is such a treasure which cannot be stolen”**





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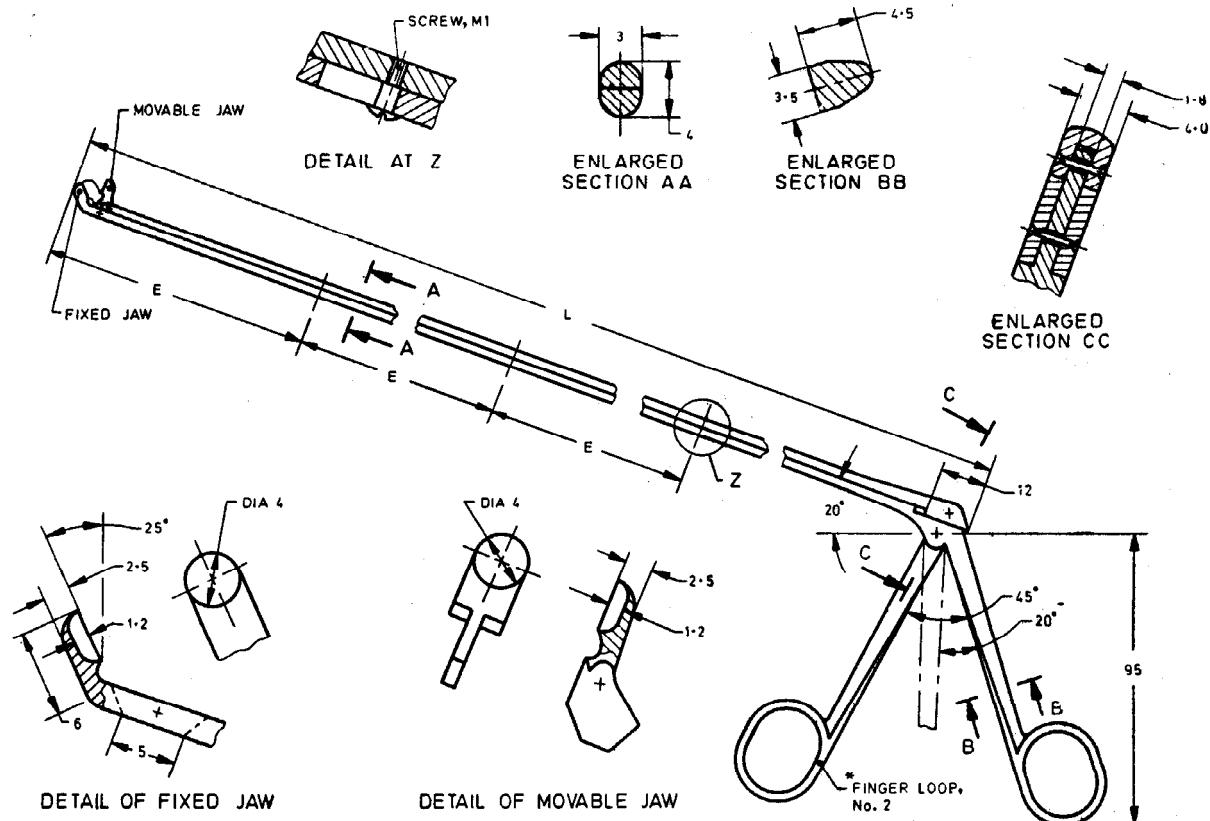


Indian Standard

# SPECIFICATION FOR FORCEPS, NODULE, VOCAL, CHEVALIER JACKSON'S PATTERN

**1. Scope** — Dimensional and other requirements for Chevalier Jackson's pattern vocal nodule forceps of sizes 25, 30, 35, 40, 45, 50 and 55 cm used in ENT surgery.

**2. Shape and Dimensions** — As shown in Fig. 1.



\*See IS : 3642-1966 'General requirements for surgical instruments'.

$E = 100$

$L = 250, 300, 350, 400, 450, 500$  and  $550$

All dimensions in millimetres.

FIG. 1 FORCEPS, NODULE, VOCAL, CHEVALIER JACKSON'S PATTERN

**2.1** A deviation of  $\pm 2.5$  percent shall be allowed on all dimensions.

**2.2** A deviation of  $\pm 2^\circ$  shall be allowed for angular dimensions.

**3. Material** — Stainless steel conforming to Designation 40Cr13 of IS : 6603-1972 'Specification for stainless steel bars and flats'.

## 4. Workmanship and Finish

**4.1** The forceps shall be free from scale, burrs, cracks, pits, tool marks and other surface defects.

**4.2** All edges shall be smoothly rounded off except the cutting edge which shall be as shown in Fig. 1.

**4.3** The forceps shall operate smoothly and the upper jaw shall fit snugly into the corresponding grooves in the lower jaw.

**4.4** The maximum opening of the upper jaw shall correspond to the maximum opening of the finger loops, that is when the finger loops are open to their maximum position, the upper jaw shall not move further.

**4.5** The forceps shall be passivated and finished dull.

**5. Heat Treatment** — The forceps shall be uniformly hardened and tempered to give a hardness of 540 to 600 HV.

## **6. Tests**

**6.1** The forceps shall be able to pick up at the tips fine hairs or bits of threads and fibres strewn on a polished surface, for example, a glass surface.

**6.2** The jaws shall be made to bite piece of firm vulcanized rubber sheet about 3'00 mm thick and the finger loops closed as fully as possible. On release the forceps shall not show any sign of damage or the upper jaw shall not become loose at the hinge.

**6.3** A force of moderate degree shall be applied by the fingers to the shank attempting to bend on the width. This shall be repeated at several points along the shank. The test shall, then, be repeated in a plane at right angles to the first. On completion of the test, the shank shall not have acquired any permanent set.

**6.4 Corrosion Resistance** — The forceps shall be tested in accordance with IS : 7531-1975 'Method for boiling and autoclaving test for corrosion resistance of stainless steel surgical instruments'. There shall not be any signs of corrosion and the arms shall move freely at the joint at the end of the test.

**6.5** The forceps shall be made to punch a  $\frac{1}{2}$  mm thick card-board sheet. The forceps shall do this easily and clearly. This shall be repeated 10 times. During or on completion of the test, the cutting edges of the forceps shall show no sign of damage.

**7. Marking** — The forceps shall be legibly and indelibly marked with manufacturer's name, initials or registered trade-mark, and the country of manufacture.

**7.1 ISI Certification Marking** — Details available with the Indian Standards Institution.

**8. Packing** — The forceps shall be wrapped in moisture-proof paper or packed in polyethylene bag. Each forceps shall then be packed in individual cartons. The forceps may also be packed as agreed to between the purchaser and the supplier.